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(54) TRICYCLIC HETEROCYCLIC DERIVATIVE, ITS PRODUCTION AND MEDICINAL PHARMACEUTICALS CONTAINING THIS COMPOUND AND HAVING ANTICANCER ACTION

(57)Abstract:

PURPOSE: To provide the novel tricyclic heterocyclic deriv. which has anticancer action by the interaction with a topoisomerase enzyme or its salts and hydrolyzable esters.

CONSTITUTION: The compd. of formula I (A is a (substd.) benzene ring, pyridine ring; R¹, R² are 1 to 4C alkyl, 1 to 4C alkoxy; R³ is H, 1 to 4C alkyl, 1 to 4C alkoxy); for example, 3-chloro-10-(4-hydroxy-3,5-dimethoxybenzyl)-9,10-dihydroacrydine-9-on. This compd. is obtd. by coupling the compd. of formula II and the compd. of formula III (Z is a substitutable group). The coupling reaction is executed at -10 to 150° C in a solvent, such as DMF, in the presence of a base (e.g.; sodium hydroxide).

